## **CLAIMS**

What is claimed is:

- 1. An antenna assembly comprising:
  - an antenna/radio interface:
  - a body section connected to the antenna/radio interface; and
- a group of omnidirectional radiating elements connected to the body section and surrounding a directional radiating element assembly, the group of omnidirectional radiating elements having a first position within the body section for an omnidirectional mode of the antenna assembly and a second position within the body section for a directional mode of the antenna assembly.
- 2. The antenna assembly according to claim 1, further comprising a switch for selecting between one of the omnidirectional mode and the directional mode of the antenna assembly.
- 3. The antenna assembly according to claim 1, wherein the body section includes:
  a switch for selecting between one of the omnidirectional mode and the directional mode of the antenna assembly; and
  - at least one matching circuit.
- 4. The body section according to claim 3, further comprising an amplifier.
- 5. The antenna assembly according to claim 1, further comprising the omnidirectional radiating elements being arranged perpendicular to a directional transmission axis of the antenna and serving as a reflector for the directional radiating element assembly when in the directional mode.
- 6. The antenna assembly according to claim 1, further comprising the antenna/radio interface being a coaxial cable connector.
- 7. The antenna assembly according to claim 1, wherein the directional radiating element assembly includes an elongated section having a first end and a second end with the first end

connected to the body section of the antenna assembly and the second end having two radiators.

- 8. The antenna assembly according to claim 7, further comprising the directional mode being an electrical connection between the directional radiating element assembly and the antenna/radio interface.
- 9. The antenna assembly according to claim 7, further comprising the two radiators being a first radiator having a first dimension and a second radiator having a second dimension, defining a plane perpendicular to the transmission axis when the antenna assembly is in the directional mode.
- 10. The antenna assembly according to claim 7, further comprising the two radiators being parallel with a directional transmission axis of the antenna when the antenna assembly is in the omnidirectional mode.
- 11. The antenna assembly according to claim 7, further comprising the two radiators having an adjustable length.
- 12. The antenna assembly according to claim 1, further comprising the omnidirectional mode being an electrical connection between the group of omnidirectional radiating elements and the antenna/radio interface.
- 13. The antenna assembly according to claim 1, further comprising the group of omnidirectional radiating elements includes at least two elements.
- 14. The antenna assembly according the claim 13, further comprising the group of omnidirectional radiating elements having an adjustable length.
- 15. A dual-band antenna comprising at least one omnidirectional radiating element and a directional radiating element located on a body section, with the directional radiating element

having at least two radiators and the body section having positions for deploying and storing reflectors for the directional radiating element.

- 16. The dual-band antenna according to claim 15, further comprising the at least one omnidirectional radiating element having a first position within the body section for an omnidirectional mode of the antenna and a second position within the body section for a directional mode of the antenna.
- 17. The dual-band antenna according to claim 16, wherein the omnidirectional mode is an electrical connection between the at least one omnidirectional radiating element and an input/output interface and the directional mode is an electrical connection between the directional radiating element and an input/output interface.
- 18. The dual-band antenna according to claim 15, further comprising the radiators being arranged perpendicular to a directional transmission axis for a directional mode of the antenna and parallel to a directional transmission axis for an omnidirectional mode of the antenna.
- 19. The dual-band antenna according to claim 18, wherein the omnidirectional mode is an electrical connection between the at least one omnidirectional radiating element and an input/output interface and the directional mode is an electrical connection between the directional radiating element and an input/output interface.
- 20. The dual-band antenna according to claim 15, further comprising the at least one omnidirectional radiating element being arranged perpendicular to a directional transmission axis and serving as a reflector for the directional radiating element when the antenna assembly is in a directional mode.
- 21. The dual-band antenna according to claim 20, wherein the directional mode is an electrical connection between the directional radiating element and an input/output interface.
- 22. The dual-band antenna according to claim 15, further comprising the body section including at least one matching circuit and a switch.

- 23. The dual-band antenna according to claim 22, further comprising the body section including at least one amplifier.
- 24. The dual-band antenna according to claim 15, further comprising the elements being adjustable in length.
- 25. The dual-band antenna according to claim 15, further comprising the at least two radiators being adjustable in length.